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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 15834-008002	Application No. 10/628,152
		Applicant Ronald L. Spross	
		Filing Date July 28, 2003	Group Art Unit 2851

Information Disclosure Statement  
by Applicant  
(Use several sheets if necessary)

(37 CFR §1.98(b))

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
OK	AA	5,513,528	05/07/1996	Holenka et al.	✓	✓	
OK	AB	5,486,695	01/23/1996	Schultz et al.	✓	✓	
OK	AC	5,473,158	12/05/1995	Holenka et al.	✓	✓	
OK	AD	5,465,799	11/14/1995	Ho	✓	✓	
OK	AE	5,451,779	09/19/1995	Spross et al.	✓	✓	
OK	AF	5,397,893	03/14/1995	Minette	✓	✓	
OK	AG	5,200,705	04/06/1993	Clark et al.	✓	✓	
OK	AH	5,091,644	02/25/1992	Minette	✓	✓	
OK	AI	5,045,795	09/03/1991	Gianzero et al.	✓	✓	
OK	AJ	5,017,778	05/21/1991	Wraight	✓	✓	
OK	AK	4,786,874	11/22/1988	Grosso et al	✓	✓	
OK	AL	4,665,511	05/12/1987	Rodney et al.	✓	✓	
OK	AM	4,601,353	07/22/1986	Schuh et al.	✓	✓	
OK	AN	4,510,696	04/16/1985	Roesler	✓	✓	
OK	AO	4,163,324	08/07/1979	Russell et al.	✓	✓	



Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AP							
	AQ							
	AR							
	AS							
	AT							

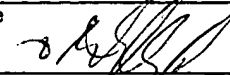
Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
OK	AU	International Search Report prepared by David Bagnell, completed March 19, 2003, mailed April 10, 2003

Examiner Signature 	Date Considered 07/31/05
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Sheet 2 of 2

Substitute Form PTO-1449 (Modified)  <b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. <b>15834-008002</b>	Application No. <b>10/628,152</b>
	Applicant <b>Ronald L. Spross</b>		
	Filing Date <b>July 28, 2003</b>	Group Art Unit <b>2857</b>	

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AV	"Interpretation of Directional Gamma Ray Logging Data for Hydraulic Fracture Orientation"; G.A. Simpson and L.L. Gadeken, Halliburton Logging Services, Inc.; Society of Petroleum Engineers, SPE 25851, 1993, pages 95-106
	AW	"MWD Directional-Focused Gamma Ray - A New Tool for Formation Evaluation and Drilling Control in Horizontal Wells"; Yih-Min Jan and John W. Harrell, SPWLA 28 <sup>th</sup> Annual Logging Symposium, June 29-July 2, 1987, pages 1-17
	AX	

Examiner Signature 	Date Considered <b>01/31/05</b>
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Disclosure Form (PTO-1449)